THE FOLLOWING ARE THE ENGLISH TRANSLATION OF ANNEXES TO THE INTERNATIONAL PRELIMINARY EXAMINATION REPORT (ARTICLE 34):

Amended Sheets (Pages 31-33)

We claim:

1) A process for preparing (meth)acrylic esters (F) containing urethane groups by

c) reacting an alcohol (C) containing urethane groups with (meth)acrylic acid or an ester of (meth)acrylic acid with a saturated alcohol (D), and

d) if desired, working up the reaction mixture from c), which comprises

conducting the reaction c) in the presence of an enzyme (E).

2) A process as claimed in claim 1, wherein the enzyme (E) is a lipase, esterase or protease.

3) A process as claimed in claim 1 or 2, wherein the conversion in stage c) is set to at least 95%.

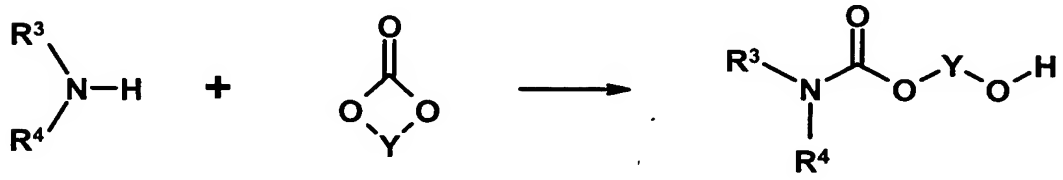
4) A process as claimed in any of the preceding claims, wherein the reaction c) is conducted at from 20 to 80°C.

5) A process as claimed in any of the preceding claims, wherein the alcohol (C) containing urethane groups is obtainable by

a) reacting an amine (A) with a carbonate (B), and

b) if desired, working up the reaction mixture obtainable from a).

6) A process as claimed in claim 5, wherein the alcohol (C) containing urethane groups is obtainable by a reaction thus



(A) (B) (C)

in which

R^3, R^4 independently are hydrogen, C_1–C_{18} alkyl, C_2–C_{18} alkyl uninterrupted or interrupted by one or more oxygen and/or sulfur atoms and/or by one or more substituted or unsubstituted imino groups, or are C_2–C_{18} alkenyl, C_6–C_{12} aryl, C_5–C_{12} cycloalkyl or a five- to six-membered heterocycle containing oxygen, nitrogen and/or sulfur atoms, it being possible for each of the radicals stated to be substituted by aryl, alkyl, aryloxy, alkyloxy, heteroatoms and/or heterocycles, or are a group of the formula $-[X_i]_k-H$,

Y is C_2-C_{20} alkylene or C_5-C_{12} cycloalkylene or is C_2-C_{20} alkylene which is interrupted by one or more oxygen and/or sulfur atoms and/or by one or more substituted or unsubstituted imino groups and/or by one or more cycloalkyl, -(CO)-, -O(CO)O-, -(NH)(CO)O-, -O(CO)(NH)-, -O(CO)- or -(CO)O- groups, it being possible for each of the radicals stated to be substituted by aryl, alkyl, aryloxy, alkyloxy, heteroatoms and/or heterocycles,

k is a number from 1 to 50, and

X_i for i = 1 to k can be selected independently from the group consisting of $-CH_2-CH_2-O-$, $-CH_2-CH_2-N(H)-$, $-CH_2-CH_2-CH_2-N(H)-$, $-CH_2-CH(NH_2)-$, $-CH_2-CH(NHCHO)-$, $-CH_2-CH(CH_3)-O-$, $-CH(CH_3)-CH_2-O-$, $-CH_2-C(CH_3)_2-O-$, $-C(CH_3)_2-CH_2-O-$, $-CH_2-CH_2-CH_2-O-$, $-CH_2-CH_2-CH_2-\ CH_2-O-$, $-CH_2-CHVin-O-$, $-CHVin-CH_2-O-$, $-CH_2-CHPh-O-$, and $-CHPh-CH_2-O-$, where Ph stands for phenyl and Vin stands for vinyl.

7) A reaction mixture obtainable as set forth in any of claims 1 to 6.

8) A radiation curable or dual cure coating composition comprising a reaction mixture as claimed or set forth in any of claims 1 to 6.

9) The use of (meth)acrylic esters containing urethane groups as set forth in any of claims 1 to 6 as reactive diluents or binders in radiation-curable or dual cure coating compositions or as comonomers in poly(meth)acrylates.

10) The use of (meth)acrylic esters containing urethane groups as set forth in any of claims 1 to 6 in a thermally induced (co)polymerization.

11) (Meth)acrylic esters containing urethane groups and obtainable by

a) reacting a polyethyleneimine, a hydrogenated polyacrylonitrile, a straight-chain, branched or dendritic polymer having amino functions or an at least partly hydrolyzed poly-N-vinylformamide having a weight-average molecular weight M_w of from 200 to 1 000 000 with a carbonate (B) at a temperature of from 0 to 120°C,

b) if desired, working up the reaction mixture obtainable from a),

c) reacting the reaction mixture from a) or b) with (meth)acrylic acid or with an ester of (meth)acrylic acid with a saturated alcohol (D) in the presence of an enzyme (E), and

d) if desired, working up the reaction mixture from c).